REAGENTS SUBSTATION

34.5kV FROM SWITCHBOARD
380-SWB-9001
REF DRG 380-ESL-9001

380-DBE-9021 (PART OF)
480V/277V AC SERVICES DISTRIBUTION BOARD

055-E-005

ISOLATE AT 380-SWB-9001
SEE NOTE 1

UPSTREAM PROT. RELAY

380-TFR-9021
34.5kV/0.48kV
750kVA
Z=5%

P/T

TRANSFORMER COMPOUND EARTH BAR

SUBSTATION EARTH BAR

2200A

POWER ON

POWER ON

NEUTRAL BAR

EARTH BAR

CHASSIS EARTH

1000A

1000A 480V 3ph 60Hz

FAULT RATING 20kA for 1 sec

63A
400A
250A
200A
63A
63A
250A
63A
125A
125A

NOTE 3
NOTE 3
NOTE 3
NOTE 2

10kA/1s
10kA/1s

SPARE
SPARE
SPARE

480V DISTRIBUTION CHASSIS
REF DRG 380-ESL-9022

480V DISTRIBUTION CHASSIS
AIR CONDITIONING
REF DRG 380-ESL-9023

380-BAT-9031

380-UPS-9031
REFER 380-ESL-9031

480V/277V
30kVA

250A BYPASS SWITCH

2 x 277V/240V
30kVA

380-TFR-9051
480V/208V
30kVA

391-PP-9082
188kW

391-PP-9084
3kW

REAGENT FIRE SPRINKLER
FIRE WATER PUMP 1
CONTROL PANEL
NOTE 2

REAGENT FIRE SPRINKLER
JOCKEY PUMP
CONTROL PANEL

380-DBE-9031

380-DBE-9051

380-DBE-9061

240V/120V AC UPS
DISTRIBUTION BOARD
REF DRG 380-ESL-9031

208V/120V AC
POWER DISTRIBUTION BOARD
REF DRG 380-ESL-9051

480V/277V AC
LIGHTING & SMALL POWER
DISTRIBUTION BOARD
REF DRG 380-ESL-9061

NOTES

1. INCOMER COMPARTMENT SHALL BE LABELLED. " ISOLATE AT 314-SWB-9001 "
2. FIRE TRIP CONTACTOR.
3. FIRE WATER PUMP TO BE FED FROM LIVE SIDE OF INCOMER CIRCUIT BREAKER VIA A FUSED SWITCH. FUSED SWITCH TO BE LOCKED IN THE CLOSED POSITION, LABELLED "FIRE PUMP DISCONNECTING MEANS" LETTERS SHALL BE 25mm IN HEIGHT, WHITE ON RED BACKGROUND.
4. FAULT LIMITING FUSES. VENDOR TO SIZE FUSES.

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REVISIONS

REV	DESCRIPTION	DRN	CHK	ENG	DATE
3	FIRE WATER SUPPLY & NOTE 3 REVISED	LH	KR	CMcD	30.08.17
2	REV AS PER:1824-300-ME-LST-002/R	MA	KR	JT	24.05.17
1	REVISED AS NOTED	SJO	KR	JT	24.02.17
0	ISSUED FOR CONSTRUCTION	MA	KR	RW	23.09.16

REV	DESCRIPTION	DRN	CHK	ENG	DATE
4	REVISED AS NOTED	JB	KR	JT	27.02.18

REFERENCE DRAWINGS

DRAWING No.	DESCRIPTION

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CLIENT	S.EGNER	23.09.16

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MINA DE COBRE PANAMA
REAGENTS
480V AC SERVICES DISTRIBUTION BOARD
380-DBE-9021 SINGLE LINE DIAG SHT 1

CLIENT: MINERA PANAMA S.A.

SCALE		DRG. No.	CLIENT PROJECT NUMBER	REV. No.
N.T.S	A1	380-ESL-9021	1824	4